INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/005009

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A. CLASSIFIC	CATION OF SUBJECT MATTER G01M1/28, B60C25/00, G01M17/0	02, B60C19/00		
According to Int	ernational Patent Classification (IPC) or to both nationa	I classification and IPC		
B. FIELDS SE	ARCHED	·		
	nentation searched (classification system followed by cla	assification symbols)		
Int.Cl	G01M1/28, B60C25/00, G01M17/0	02, B60C19/00		
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Electronic data b	ase consulted during the international search (name of	lata base and, where practicable, search te	rms used)	
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.C. DOCUMEN	VTS CONSIDERED TO BE RELEVANT	· · · · · · · · · · · · · · · · · · ·		
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.	
A	Microfilm of the specification	n and drawings	1-12	
	annexed to the request of Jap			
	Model Application No. 112390/	1989(Laid-open · ·		
	No. 51348/1991)			
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	20 May, 1991 (20.05.91),			
	Page 4, line 12 to page 9, li	ne 7; drawings		
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A	JP 7-27649 A (Mitsubishi Hea	vy Industries,	1-12	
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	31 January, 1995 (31.01.95),			
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	A. Martin D. C. St. C. S. D. C.	C		
Further documents are listed in the continuation of Box C. See patent family annex.				
"A" document d	The document particular the medianical and the medi		ation but cited to understand	
	cation or patent but published on or after the international	"X" document of particular relevance; the c		
filing date	•	considered novel or cannot be considered	dered to involve an inventive	
	hich may throw doubts on priority claim(s) or which is ablish the publication date of another citation or other	step when the document is taken alone "Y" document of particular relevance; the c		
special reaso	on (as specified)	considered to involve an inventive	step when the document is	
1	ferring to an oral disclosure, use, exhibition or other means	combined with one or more other such being obvious to a person skilled in the		
	ublished prior to the international filing date but later than date claimed	"&" document member of the same patent i		
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Date of the actual completion of the international search Date of mailing of the international search report				
	y, 2004 (07.07.04)	20 July, 2004 (20.0	7.04)	
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	ng address of the ISA/	Authorized officer		
Japane	se Patent Office			
Facsimile No.		Telephone No.		

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PCT/JP2004/005009

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A	JP 5-66171 A (Kobe Steel, Ltd.), 19 March, 1993 (19.03.93), Full text; all drawings & US 5219387 A		1-12
A	<pre>JP 10-73518 A (Mitsubishi Heavy Industri Ltd.), 17 March, 1998 (17.03.98), Full text; all drawings & US 6089084 A</pre>	es,	1-12
A	JP 2001-512566 A (Illinois Tool Works, I 21 August, 2001 (21.08.01), Page 15, line 17 to page 22, line 11 & EP 9546123 A & WO 98034801 A2 & US 5992227 A		1-12
P,A	JP 2003-240682 A (Bridgestone Corp.), 27 August, 2003 (27.08.03), Full text; all drawings & WO 03/071250 A1		1-12
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